

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **01286750 A**

(43) Date of publication of application: **17.11.89**

(51) Int. Cl. **H02K 7/18**  
**F16H 35/00**

(21) Application number: **63114449**

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(22) Date of filing: **10.05.88**

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(57) Abstract:

PURPOSE: To prevent a generator from excessively rotating by interposing a clutch for disconnecting a reversing unit from a rotor shaft when the rotating speed of the shaft rises to a predetermined value or more between the reversing unit and the shaft.

CONSTITUTION: A rotor shaft 2 is rotatably supported to an approximately cylindrical casing 1 through bearings 2a, 2b. A pulley 3 is mounted on the shaft 2 at its protrusion, and connected to the driving pulley of an engine through a bent 4 to be rotated. A rotor coil 6 is provided at the position in the casing of the shaft 2, and the stator coil 8 of a stator holding member 7 is disposed oppositely thereto. A reversing unit 16 is composed of a holding member 12, an idle gear 13, a rotor gear 14, etc. Further, a centrifugal clutch 18 is provided between the gear 14 and the shaft 2. Thus, when the shaft rotates at a low speed, its rotating speed is increased through the clutch 18 and the unit 16, while when it rotates at a predetermined speed or over, the clutch 18 is disconnected to stop the rotation of the stator.

